

CLAIMS

We claim:

1. A dynamic database management system,
comprising:

a data dictionary including identifications of
related groups of tables in a database, information of
tables in said related groups, and identifications of
parameters of said related groups; and

a data importer receiving an input including data
to be imported into said database, an indication of one of
said related groups that is associated with said data, and
indications of parameters associated with said data,

wherein said data importer appends one or more
portions of said data associated with existing parameters to
corresponding one or more existing tables associated with
said existing parameters and having tables of said one of
said related groups as references, appends data associated
with new parameters to a new table created for said new
parameters, and updates said data dictionary to include said
identifications and information of said new table and new
parameters.

2. The system according to claim 1, further
comprising:

a query front-end providing a parameter tree to be
displayed to users for facilitating database queries,

wherein said data dictionary further includes
information for said parameter tree, and said data importer

further updates said information for said parameter tree to include information of said new table and new parameters.

3. The system according to claim 1, wherein said data dictionary has a reference groups table for storing indications of related groups of tables, and including columns for reference groups identifications and reference groups names.

4. The system according to claim 1, wherein said data dictionary has a references table for storing information of reference tables for individual of said related group of tables.

5. The system according to claim 1, wherein said data dictionary has a parameters table for storing information of parameters associated with individual of said related group of tables.

6. The system according to claim 2, wherein said data dictionary has a folders table for storing information of a parameter tree to be provided to said query front-end.

7. The system according to claim 6, wherein said data dictionary has a parameters table for storing information of parameters associated with individual of said related group of tables.

8. The system according to claim 7, wherein said data dictionary has a parameters-to-folders mapping table

for mapping said information of parameters to corresponding information in said folders table.

9. A method for managing a dynamic database, comprising:

receiving an input including data to be imported into a database, an indication of a related group of tables that is associated with said data, and indications of parameters associated with said data;

forming a set of existing parameters and a set of new parameters from said parameters associated with said data, based upon parameter information stored in a data dictionary for said related group of tables;

appending one or more portions of said data associated with said set of existing parameters to corresponding one or more existing tables having said related group of tables as references in said database;

importing a remaining portion of said data associated with said set of new parameters to a new table created for said new parameters; and

updating information in said data dictionary to include identifications and information of said new table and said new parameters.

10. The method according to claim 9, further comprising identifying said one or more existing tables having said related group of tables as references in said database from information in said data dictionary linking said one or more existing tables to said existing parameters.